

Appl. No. : 10/614,648
Filed : July 7, 2003

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AMENDMENTS TO THE CLAIMS

1-92. (Canceled)

93. (New) A composition comprising:

a first component that comprises an unprocessed adipose tissue obtained from a patient mixed with a second component comprising a concentrated population of cells that comprises adipose-derived stem cells, wherein said concentrated population of cells that comprises adipose-derived stem cells is obtained from said patient.

94. (New) The composition of Claim 93, wherein the amount of adipose-derived stem cells in said first component is less than the amount of adipose-derived stem cells in said second component.

95. (New) The composition of Claim 93, wherein the amount of adipose-derived stem cells in said second component is at least 0.1% of the total population of cells.

96. (New) The composition of Claim 93, wherein the amount of adipose-derived stem cells in said second component is between about 2% and about 12% of the total population of cells.

97. (New) The composition of Claim 93, wherein the volume of the first component is at least 25% greater than the volume of the second component.

98. (New) The composition of Claim 93, wherein the volume of the first component is at least 50% greater than the volume of the second component.

99. (New) The composition of Claim 93, wherein the volume of the first component is at least 100% greater than the volume of the second component.

100. (New) The composition of Claim 93, wherein the volume of the first component is at least 150% greater than the volume of the second component.

101. (New) The composition of Claim 93, wherein said second component is cryopreserved material.

102. (New) The composition of Claim 93, wherein said first component is cryopreserved material.

103. (New) The composition of Claim 93, wherein said second component is substantially free from mature adipocytes and connective tissue.

104. (New) A composition obtained by a process comprising:

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providing adipose tissue from a patient, wherein said adipose tissue has not undergone a process to remove cells from said adipose tissue and mixing said adipose tissue with a concentrated cell population that comprises adipose-derived stem cells, wherein said concentrated cell population that comprises adipose-derived stem cells is obtained from said patient and said concentrated cell population that comprises adipose-derived stem cells has a concentration of adipose-derived stem cells that is greater than the concentration of adipose-derived stem cells present in said adipose tissue.

105. (New) The composition of Claim 104, wherein the amount of adipose-derived stem cells in said adipose tissue is less than the amount of adipose-derived stem cells in said concentrated cell population that comprises adipose-derived stem cells.

106. (New) The composition of Claim 104, wherein the amount of adipose-derived stem cells in said concentrated cell population that comprises adipose-derived stem cells is at least 0.1% of the total population of cells.

107. (New) The composition of Claim 104, wherein the amount of adipose-derived stem cells in said concentrated cell population that comprises adipose-derived stem cells is between about 2% and about 12% of the total population of cells.

108. (New) The composition of Claim 104, wherein the volume of the adipose tissue is at least 25% greater than the volume of the concentrated cell population that comprises adipose-derived stem cells.

109. (New) The composition of Claim 104, wherein the volume of the adipose tissue is at least 50% greater than the volume of the concentrated cell population that comprises adipose-derived stem cells.

110. (New) The composition of Claim 104, wherein the volume of the adipose tissue is at least 100% greater than the volume of the concentrated cell population that comprises adipose-derived stem cells.

111. (New) The composition of Claim 104, wherein the volume of the adipose tissue is at least 150% greater than the volume of the concentrated cell population that comprises adipose-derived stem cells.

112. (New) The composition of Claim 104, wherein said concentrated cell population that comprises adipose-derived stem cells is cryopreserved material.

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113. (New) The composition of Claim 104, wherein said adipose tissue is cryopreserved material.

114. (New) The composition of Claim 104, wherein said concentrated cell population that comprises adipose-derived stem cells is substantially free from mature adipocytes and connective tissue.

115. (New) A composition comprising a concentrated population of cells that comprises adipose-derived stem cells and adipose tissue of a patient obtained by a process comprising:

removing a first portion of adipose tissue from a patient;

introducing said first portion of adipose tissue into a self-contained cell processing unit configured to maintain a closed pathway;

separating a cell population that comprises adipose-derived stem cells from the adipocytes and connective tissue present in the adipose tissue that was removed from said patient within said self-contained cell processing unit while maintaining said closed pathway;

concentrating said cell population that comprises adipose-derived stem cells within said self-contained cell processing unit while maintaining said closed pathway;

removing a second portion of adipose tissue from said patient; and

adding to said concentrated cell population that comprises adipose-derived stem cells said second portion of adipose tissue obtained from said patient.

116. (New) The composition of Claim 115, wherein the amount of adipose-derived stem cells in said second portion of adipose tissue obtained from said patient is less than the amount of adipose-derived stem cells in said concentrated cell population that comprises adipose-derived stem cells.

117. (New) The composition of Claim 115, wherein the amount of adipose-derived stem cells in said concentrated cell population that comprises adipose-derived stem cells is at least 0.1% of the total population of cells.

118. (New) The composition of Claim 115, wherein the amount of adipose-derived stem cells in said concentrated cell population that comprises adipose-derived stem cells is between about 2% and about 12% of the total population of cells.

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119. (New) The composition of Claim 115, wherein the volume of the second portion of adipose tissue obtained from said patient is at least 25% greater than the volume of the concentrated cell population that comprises adipose-derived stem cells.

120. (New) The composition of Claim 115, wherein the volume of the second portion of adipose tissue obtained from said patient is at least 50% greater than the volume of the concentrated cell population that comprises adipose-derived stem cells.

121. (New) The composition of Claim 115, wherein the volume of the second portion of adipose tissue obtained from said patient is at least 100% greater than the volume of the concentrated cell population that comprises adipose-derived stem cells.

122. (New) The composition of Claim 115, wherein the volume of the second portion of adipose tissue obtained from said patient is at least 150% greater than the volume of the concentrated cell population that comprises adipose-derived stem cells.

123. (New) The composition of Claim 115, wherein said concentrated cell population that comprises adipose-derived stem cells is cryopreserved material.

124. (New) The composition of Claim 115, wherein said second portion of adipose tissue obtained from said patient is cryopreserved material.

125. (New) The composition of Claim 115, wherein said concentrated cell population that comprises adipose-derived stem cells is substantially free from mature adipocytes and connective tissue.